INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/052259

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F02M31/20 F28D7/02 F28F13/06 F28F1/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 F28F F28D F02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 4 938 036 A (FOLEY JOHN J ET AL) 3 July 1990 (1990-07-03)	1-5,8, 11,14
Y	column 2, line 31 - column 4, line 63; figures	6,7,9, 10,12,15
X	US 5 251 603 A (KIMURA HIDEKI ET AL) 12 October 1993 (1993-10-12)	1,2,4,5, 8,11,13, 14
	column 2, line 45 - column 3, line 25; figure 2	14
	column 3, line 65 - column 4, line 28; figures 5,6	
	column 4, line 42 - line 62; figures 7,8	
	-/	

χ Patent family members are listed in annex.
 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of mailing of the international search report 03/12/2004
Authorized officer Von Arx, H

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/052259

C (C11-	NAME OF THE PROPERTY OF THE PET EVANT	1017 Et 20047 032239
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Challon of document, with indication, where appropriate, of the relevant passages	ASISVANI IO CIANTINO.
Υ	DE 37 02 963 A (SUEDDEUTSCHE KUEHLER BEHR) 11 August 1988 (1988-08-11)	6,12,15
Α	column 3, line 45 - column 4, line 29; figures	1,2,4,5, 8,10,12, 14
Υ	FR 69 567 E (SOCIÉTÉ ANONYME DES USINES CHAUSSON) 10 November 1958 (1958-11-10)	7
A	the whole document	1,2,4,5, 8,14,15
Y A	WO 98/51923 A (BENNETT TECHNOLOGIES L L C) 19 November 1998 (1998-11-19) the whole document	9,10 1-3,14
	such that fore-even here	
Α	DE 34 43 085 A (KUEHNER GMBH & CIE) 13 June 1985 (1985-06-13)	1,2,4-6, 8,10,11, 13,14
	the whole document	,
•		
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	·	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/EP2004/052259

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4938036	Α	03-07-1990	NONE		<u> </u>
US 5251603	A	12-10-1993	JP	4132446 U	08-12-1992
DE 3702963	Α	11-08-1988	DE	3702963 A1	11-08-1988
FR 69567	E	10-11-1958	NONE		
WO 9851923	Α	19-11-1998	AU CA WO US	7377798 A 2289859 A1 9851923 A1 6216675 B1	08-12-1998 19-11-1998 19-11-1998 17-04-2001
DE 3443085	. A	13-06-1985	DE DE	8335036 U1 3443085 A1	12-04-1984 13-06-1985